

## PATENT ABSTRACTS OF JAPAN

(11)Publication number : 11-199713  
(43)Date of publication of application : 27.07.1999

(51)Int. Cl. C08L 19/00  
B60C 1/00  
B60C 5/14  
C08L 23/22  
C08L 25/16  
C08L 77/00

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(54) THERMOPLASTIC ELASTOMER COMPOSITION AND PNEUMATIC TIRE PREPARED BY USING SAME

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a thermoplastic elastomer composition improved in heat resistance, durability, and air permeation resistance as well without detriment to flexibility.

SOLUTION: A nylon resin having a melting point of 170-230°C and an elastomer containing a product of halogenation of an isobutylene/p-methylstyrene copolymer are dynamically vulcanized to a gel fraction of 50-95%. Desirably the nylon resin comprises nylon 11 or 12 and a nylon 6/66 copolymer in a compositional ratio of 10/90 to 90/10. This composition can be effectively utilized for air permeation preventive layers of pneumatic tires.

## LEGAL STATUS

[Date of request for examination] 26.02.1999

[Date of sending the examiner's decision  
of rejection]

[Kind of final disposal of application  
other than the examiner's decision of  
rejection or application converted  
registration]

[Date of final disposal for application]

[Patent number] 3236257

[Date of registration] 28.09.2001

[Number of appeal against examiner's  
decision of rejection]

[Date of requesting appeal against  
examiner's decision of rejection]

[Date of extinction of right]

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